

| R&FS #        | Section | Description   | DTR#        | Verification Method | Auditor |
|---------------|---------|---|-------------|---------------------|---------|
| OCC-GEN-00111 | 3.1.1   | Use and support the Space Network (SN)  | * 4.4.5.2   | Demonstration       |         |
| OCC-GEN-00120 | 3.1.1   | Use and support the INMARSAT network  | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-00130 | 3.1.1   | Use and support the Iridium network   | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-00140 | 3.1.1   | Use and support the ARGOS network   | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-00210 | 3.1.2   | Support instrument integration and test activities                            | 4.4.1,4.4.2 | Demonstration       |         |
| OCC-GEN-00310 | 3.1.3   | Relay a command within 1.0 second   | 4.4.5.4     | Demonstration       |         |
| OCC-GEN-00320 | 3.1.3   | Support monitoring and commanding   | 4.4.5       | Demonstration       |         |
| OCC-GEN-00410 | 3.1.4   | Near real-time interface to the PIs   | 4.4.5.1     | Demonstration       |         |
| OCC-GEN-00420 | 3.1.4   | Conform to all security requirements  | 4.4.5.1     | Demonstration       |         |
| OCC-GEN-00431 | 3.1.4   | Provide an Internet interface   | * 4.4.5.2   | Demonstration       |         |
| OCC-GEN-00441 | 3.1.4   | Utilize the LBD MPT   | * 4.4.5.2   | Demonstration       |         |
| OCC-GEN-00510 | 3.1.5   | Unique sessions for each operator   | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-00520 | 3.1.5   | Unique user identification and password for each user                         | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-00530 | 3.1.5   | Perform filtering to control external interfaces                              | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-00540 | 3.1.5   | Provide a secure means of receiving science payload commands                  | 4.4.5.3     | Demonstration       |         |
| OCC-GEN-01610 | 3.1.6.1 | Real-time server identical to the analysis server and backup server           | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-01620 | 3.1.6.1 | Real-time server to be a dedicated workstation                                | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-01630 | 3.1.6.1 | Real-time server shall be upgradeable/expandable                              | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-01641 | 3.1.6.1 | Real-time server disk drives shall provide 54 GB of storage                   | * 4.4.5.2   | Demonstration       |         |
| OCC-GEN-01650 | 3.1.6.1 | Real-time server shall support one CD-ROM drive                               | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-02610 | 3.1.6.2 | Analysis server shall conform to all real-time server requirements            | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-03610 | 3.1.6.3 | Backup server shall conform to all real-time and analysis server requirements | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-04610 | 3.1.6.4 | A server shall be provided to act as the external interface                   | 4.4.5.2     | Demonstration       |         |
| OCC-GEN-05611 | 3.1.6.5 | Store a minimum of 54 GB of data per mission                                  | * 4.4.5.2   | Demonstration       |         |
| OCC-GEN-06610 | 3.1.6.6 | Monitors to have diagonal measurement of 19 inches                            | 4.4.5.2     | Inspection          |         |
| OCC-GEN-06620 | 3.1.6.6 | A shared system printer shall be provided                                     | 4.4.5.2     | Inspection          |         |
| OCC-TLM-01111 | 3.2.1.1 | Receive telemetry using the Space Network (SN)                                | * 4.4.5.2   | Demonstration       |         |
| OCC-TLM-01120 | 3.2.1.1 | Receive telemetry using INMARSAT  | 4.4.5.2     | Demonstration       |         |
| OCC-TLM-01130 | 3.2.1.1 | Receive telemetry using ARGOS   | 4.4.5.2     | Demonstration       |         |
| OCC-TLM-01140 | 3.2.1.1 | Receive telemetry using Iridium   | 4.4.5.2     | Demonstration       |         |
| OCC-TLM-01150 | 3.2.1.1 | Receive archived balloon-craft telemetry                                      | 4.4.5.2     | Demonstration       |         |
| OCC-TLM-02110 | 3.2.1.2 | Accept CCSDS transfer frames  | 4.4.5.2     | Demonstration       |         |
| OCC-TLM-00210 | 3.2.2   | Accept CCSDS format   | 4.4.5.2     | Demonstration       |         |
| OCC-TLM-00220 | 3.2.2   | Append a ground receipt date and time identifier to all received data         | 4.4.5.2     | Demonstration       |         |
| OCC-TLM-00230 | 3.2.2   | Science data forwarded to the PI  | 4.4.5.1     | Demonstration       |         |
| OCC-TLM-00240 | 3.2.2   | Process balloon-craft h/k data  | 4.4.5.2     | Analysis            |         |

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| OCC-TLM-00250 | 3.2.2   | Detect missing packets  | 4.4.5.2 | Analysis            |               |
| OCC-TLM-00260 | 3.2.2   | Process telemetry based on predefined processing algorithms                     | 4.4.5.2 | Analysis            |               |
| OCC-TLM-00270 | 3.2.2   | Process telemetry at rates of at least 50 Kbps and up to 150 Kbps               | 4.4.5.2 | Analysis            |               |
| OCC-TLM-00280 | 3.2.2   | Convert telemetry into Engineering Units (EUs)                                  | 4.4.5.2 | Analysis            |               |
| OCC-TLM-00290 | 3.2.2   | Store all processed telemetry in TBD format indefinitely                        | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-01210 | 3.2.2.1 | Perform high/low limit checking on parameters                                   | 4.4.5.2 | Analysis            |               |
| OCC-TLM-01220 | 3.2.2.1 | Limit check parameters for boundary violations                                  | 4.4.5.2 | Analysis            |               |
| OCC-TLM-01230 | 3.2.2.1 | Limit check telemetry data against its limit values                             | 4.4.5.2 | Analysis            |               |
| OCC-TLM-01240 | 3.2.2.1 | Compare successive raw parameter values with predefined delta                   | 4.4.5.2 | Analysis            |               |
| OCC-TLM-01250 | 3.2.2.1 | Mark each telemetry parameter indicating current limit condition                | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-02210 | 3.2.2.2 | Notify user when a parameter violates limits                                    | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-02220 | 3.2.2.2 | Notify user when a parameter returns to within limits                           | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-02230 | 3.2.2.2 | Notify user when a parameter incurs a delta limit violation                     | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-02240 | 3.2.2.2 | Generate notification without an alarm for limit violations in the yellow range | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-02250 | 3.2.2.2 | Generate notification with an alarm for limit violations in the red range       | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-02260 | 3.2.2.2 | Provide capability of disabling/enabling notification messages                  | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-02270 | 3.2.2.2 | Provide capability of changing limit values                                     | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-03210 | 3.2.2.3 | Provide capability to select a predefined EU conversion algorithm               | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-03220 | 3.2.2.3 | Provide capability to adjust the predefined EU conversion algorithm             | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-04210 | 3.2.2.4 | Make available values for every predefined telemetry parameter                  | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-04220 | 3.2.2.4 | Make available status for every predefined telemetry parameter                  | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-04230 | 3.2.2.4 | Make available description for every predefined telemetry parameter             | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-05210 | 3.2.2.5 | Provide capability to display all balloon-craft h/k parameters                  | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-05220 | 3.2.2.5 | Display data from the active source in a single window                          | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-05230 | 3.2.2.5 | Provide one or more top-level engineering displays                              | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-05240 | 3.2.2.5 | Provide additional displays   | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-05250 | 3.2.2.5 | Provide an operations display to display select science parameters              | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-05260 | 3.2.2.5 | Provide an operations display   | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-05271 | 3.2.2.5 | Provide a Web interface for engineering display                                 | *       | 4.4.5.2             | Demonstration |
| OCC-TLM-05281 | 3.2.2.5 | Provide a Web interface for operations display                                  | *       | 4.4.5.2             | Demonstration |
| OCC-TLM-06210 | 3.2.2.6 | Store telemetry data as received from the data source                           | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-06220 | 3.2.2.6 | Receive and store real-time telemetry at 50 - 150 Kbps                          | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-06230 | 3.2.2.6 | Receive and store balloon-craft recorder playback telemetry at 50 - 150 Kbps    | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-06240 | 3.2.2.6 | Accept and store down-linked memory dump  | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-06250 | 3.2.2.6 | Replay telemetry data based upon a user specified time period                   | 4.4.5.2 | Demonstration       |               |
| OCC-TLM-06260 | 3.2.2.6 | Process all data for the requested period during replay operation               | 4.4.5.2 | Analysis            |               |

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| OCC-TLM-07210 | 3.2.2.7 | Provide an interface for forwarding raw science data in near-real-time        | 4.4.5.1     | Demonstration       |         |
| OCC-TLM-07220 | 3.2.2.7 | Provide an interface for forwarding raw instrument h/k data in near-real-time | 4.4.5.2     | Demonstration       |         |
| OCC-TLM-07230 | 3.2.2.7 | Make available files containing balloon-craft h/k parameters                  | 4.4.5.2     | Demonstration       |         |
| OCC-CMD-00110 | 3.3.1   | Receive, validate, and forward commands from an approved source               | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00120 | 3.3.1   | Provide the capability to create, edit, and delete a command script           | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00130 | 3.3.1   | Validate each field of each real-time command in a procedure                  | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00140 | 3.3.1   | Display a listing of scripts generated or executed the previous 7 days        | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00211 | 3.3.2   | Transmit commands via SN  | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00220 | 3.3.2   | Transmit commands via INMARSAT  | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00230 | 3.3.2   | Route commands through the proper ocean when utilizing INMARSAT               | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00240 | 3.3.2   | Transmit commands via Iridium network   | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00310 | 3.3.3   | Authorized operator to issue individual commands in real-time                 | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00320 | 3.3.3   | Transmit commands from a command procedure                                    | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00330 | 3.3.3   | Merge commands and memory loads into one up-link stream                       | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00410 | 3.3.4   | Assemble standard, fixed-length packets for onboard execution                 | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00420 | 3.3.4   | Validate all real-time commands   | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00430 | 3.3.4   | Command set flight configurable   | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00510 | 3.3.5   | Determine a specific command as critical                                      | 4.4.6,4.4.7 | Demonstration       |         |
| OCC-CMD-00520 | 3.3.5   | Require an operator authorization prior to up-linking a critical command      | 4.4.6,4.4.7 | Demonstration       |         |
| OCC-CMD-00610 | 3.3.6   | Verify critical commands issued from an authorized user                       | 4.4.6,4.4.7 | Demonstration       |         |
| OCC-CMD-00620 | 3.3.6   | Verify commands issue from an appropriate user                                | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00710 | 3.3.7   | Archive all up-linked information   | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00720 | 3.3.7   | Provide capability to log each command based on communications link           | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00730 | 3.3.7   | Notify the operator when a command is transmitted                             | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00740 | 3.3.7   | Provide capability to display and resend the last command sent                | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00750 | 3.3.7   | Mission critical commands shall take precedence over all other commands       | 4.4.6,4.4.7 | Demonstration       |         |
| OCC-CMD-00760 | 3.3.7   | Provide interface to prevent PI(s) from using command up-links                | 4.4.5.3     | Demonstration       |         |
| OCC-CMD-00770 | 3.3.7   | Alert when PIs utilizing a communications up-link                             | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00780 | 3.3.7   | Append the associated balloon ID number to all commands                       | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00810 | 3.3.8   | Verify successful receipt of commands by the balloon-craft                    | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00820 | 3.3.8   | Notify operator of the status of each command up-linked                       | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00910 | 3.3.9   | Display all commands as defined in the Project Data Base                      | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00920 | 3.3.9   | Display commands in a grouping according to command function                  | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00930 | 3.3.9   | Provide a macro facility for frequently used sets of commands                 | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00940 | 3.3.9   | Display each command as it is selected  | 4.4.5.4     | Demonstration       |         |
| OCC-CMD-00950 | 3.3.9   | Alerts for critical command functions may be visual or audible                | 4.4.5.4     | Demonstration       |         |

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| OCC-DAT-00110 | 3.4.1   | Display informational text messages about events                       | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-00120 | 3.4.1   | Event display shall have a scrolling text field                        | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-00130 | 3.4.1   | Provide the capability to request and display event history data       | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-01210 | 3.4.2.1 | Accept h/k telemetry definitions                                       | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-01220 | 3.4.2.1 | Contents of telemetry definitions are defined                          | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-01230 | 3.4.2.1 | Accept balloon-craft and instrument command definitions                | 4.4.5.4 | Demonstration       |         |
| OCC-DAT-01240 | 3.4.2.1 | Contents of command definitions are defined                            | 4.4.5.4 | Demonstration       |         |
| OCC-DAT-02210 | 3.4.2.2 | Provide capability to add, delete, and modify telemetry definitions    | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-02220 | 3.4.2.2 | Provide capability to add, delete, and modify command definitions      | 4.4.5.4 | Demonstration       |         |
| OCC-DAT-02230 | 3.4.2.2 | Provide a PDB edit log   | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-02240 | 3.4.2.2 | Contents of edit log are defined                                       | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-03210 | 3.4.2.3 | Provide capability to perform validation on PDB telemetry definitions  | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-03220 | 3.4.2.3 | Provide capability to perform validation on PDB command definitions    | 4.4.5.4 | Demonstration       |         |
| OCC-DAT-03230 | 3.4.2.3 | Provide capability to perform validation on PDB constraint definitions | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-03240 | 3.4.2.3 | Provide capability to generate a validation report                     | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-03250 | 3.4.2.3 | Provide capability to report information maintained in the PDB         | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-04210 | 3.4.2.4 | Maintain all versions of operational PDB                               | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-04220 | 3.4.2.4 | Maintain descriptive information for each version of the PDB           | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-04230 | 3.4.2.4 | Provide capability to backup the operational PDB                       | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-04240 | 3.4.2.4 | Provide capability to restore the operational PDB                      | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-04250 | 3.4.2.4 | Provide capability to compare two versions of a PDB                    | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-01310 | 3.4.3.1 | Archive all telemetry data   | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-01320 | 3.4.3.1 | Maintain telemetry data on-line for a minimum of TBD days              | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-01330 | 3.4.3.1 | Provide capability to retrieve archived data                           | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-02310 | 3.4.3.2 | Archive all event messages   | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-02320 | 3.4.3.2 | Provide capability to retrieve archived events                         | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-03310 | 3.4.3.3 | Store and retrieve data files  | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-00410 | 3.4.4   | Generate event messages  | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-00420 | 3.4.4   | Contents of event messages are defined                                 | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-00430 | 3.4.4   | Filter event messages  | 4.4.5.2 | Demonstration       |         |
| OCC-DAT-00440 | 3.4.4   | Designate a type of event message as an alarm                          | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-01110 | 3.5.1.1 | Accept operator requests to configure the OCC                          | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-01120 | 3.5.1.1 | Allow operators to specify a version of the Project Data Base          | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-01130 | 3.5.1.1 | Accept configuration files that were created on the ROCC               | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-02110 | 3.5.1.2 | Authorize users to command a ULDB balloon-craft                        | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-02120 | 3.5.1.2 | Accept, validate, and process requests to acquire command privilege    | 4.4.5.4 | Demonstration       |         |

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| OCC-RMC-02130 | 3.5.1.2   | Provide a mechanism by which command privilege can be disabled                  | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-13110 | 3.5.1.3.1 | Allow from 0 to 64 windows to be displayed simultaneously                       | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-13120 | 3.5.1.3.1 | Provide capability to define default position and size of each window           | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-13130 | 3.5.1.3.1 | Provide capability to define system defaults                                    | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-13140 | 3.5.1.3.1 | Allow user to perform typical windowing desktop control                         | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-13150 | 3.5.1.3.1 | Allow user to issue directives from a workstation keyboard                      | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-13160 | 3.5.1.3.1 | Provide a command line editing capability                                       | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-13170 | 3.5.1.3.1 | Provide an area that displays the 10 most recent event messages                 | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-13180 | 3.5.1.3.1 | Allow user to initiate functions using function keys                            | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-23110 | 3.5.1.3.2 | Provide a login screen  | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-23120 | 3.5.1.3.2 | Allow a user to specify a user type   | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-23130 | 3.5.1.3.2 | Allow a user to have one or more user types                                     | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-33110 | 3.5.1.3.3 | Perform a syntax check of all commands  | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-33120 | 3.5.1.3.3 | Notify user of command syntax errors and display command options                | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-04110 | 3.5.1.4   | Create, edit, delete procedures   | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-04120 | 3.5.1.4   | Save procedures according to procedure type                                     | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-04130 | 3.5.1.4   | Save a procedure according to a balloon ID                                      | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-04140 | 3.5.1.4   | Identify the author of each procedure   | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-04150 | 3.5.1.4   | Check the syntax of a procedure   | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-04160 | 3.5.1.4   | Provide the capability to request validation of procedures                      | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-04170 | 3.5.1.4   | Display a list of the procedure items   | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-04180 | 3.5.1.4   | Provide user the capability to insert the items into the procedure text         | 4.4.5.4 | Demonstration       |         |
| OCC-RMC-05110 | 3.5.1.5   | Provide hardcopy and electronic versions of analysis displays                   | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-05120 | 3.5.1.5   | Provide hardcopy of any of the currently displayed windows                      | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-16110 | 3.5.1.6.1 | Choose the start/stop time or event/duration based on date/time or last N hours | 4.4.5.2 | Demonstration       |         |
| OCC-RMC-26110 | 3.5.1.6.2 | Provide a utility to filter items according to balloon-craft ID                 | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00110 | 3.6.1     | Access all archived balloon-craft telemetry data for analysis                   | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00120 | 3.6.1     | Access all system generated statistics data files for analysis                  | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00130 | 3.6.1     | Access a previously saved mission configuration dataset for analysis            | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00210 | 3.6.2     | Determine appropriate data base to use for data analysis                        | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00220 | 3.6.2     | Provide capability to override the automatic data base selection                | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00310 | 3.6.3     | Perform analysis on parameters contained within the telemetry archive           | 4.4.5.2 | Analysis            |         |
| OCC-ANL-00320 | 3.6.3     | Notify when parameter information requested for analysis invalid                | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00330 | 3.6.3     | Uniquely time tag parameters to the granularity of TBD milliseconds             | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00340 | 3.6.3     | Build an off-line analysis request  | 4.4.5.2 | Demonstration       |         |
| OCC-ANL-00410 | 3.6.4     | Build a dataset in response to a request for data analysis                      | 4.4.5.2 | Demonstration       |         |

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| OCC-ANL-00430  | 3.6.4   | Generate datasets based on telemetry start and stop times                     | 4.4.5.2     | Demonstration       |         |
| OCC-ANL-00440  | 3.6.4   | Generate datasets based sampling rate specified per parameter                 | 4.4.5.2     | Demonstration       |         |
| OCC-ANL-00450  | 3.6.4   | Build reports of analysis products  | 4.4.5.2     | Demonstration       |         |
| OCC-ANL-00460  | 3.6.4   | Display off-line analysis results in tabular and graphical views              | 4.4.5.2     | Demonstration       |         |
| OCC-ANL-00510  | 3.6.5   | Generate and store statistics for each telemetry mnemonic                     | 4.4.5.2     | Demonstration       |         |
| OCC-ANL-00520  | 3.6.5   | Compute and display statistics based on a user-supplied interval              | 4.4.5.2     | Demonstration       |         |
| ROCC-GEN-00112 | 4.1.1   | Use and support TURFTS  | * 4.4.3.2   | Demonstration       |         |
| ROCC-GEN-00120 | 4.1.1   | Use and support the INMARSAT network  | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-00130 | 4.1.1   | Use and support the Iridium network   | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-00140 | 4.1.1   | Use and support the ARGOS network   | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-00152 | 4.1.1   | Use and support the LOS   | * 4.4.3.2   | Demonstration       |         |
| ROCC-GEN-00210 | 4.1.2   | Support instrument integration and test activities                            | 4.4.1,4.4.2 | Demonstration       |         |
| ROCC-GEN-00310 | 4.1.3   | Relay a command within 1.0 second   | 4.4.3.4     | Demonstration       |         |
| ROCC-GEN-00320 | 4.1.3   | Support monitoring and commanding   | 4.4.3       | Demonstration       |         |
| ROCC-GEN-00410 | 4.1.4   | Near real-time interface to the PIs   | 4.4.3.1     | Demonstration       |         |
| ROCC-GEN-00420 | 4.1.4   | Conform to all security requirements  | 4.4.3.1     | Demonstration       |         |
| ROCC-GEN-00510 | 4.1.5   | Unique sessions for each operator   | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-00520 | 4.1.5   | Unique user identification and password for each user                         | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-00530 | 4.1.5   | Perform filtering to control external interfaces                              | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-00540 | 4.1.5   | Provide a secure means of receiving science payload commands                  | 4.4.3.3     | Demonstration       |         |
| ROCC-GEN-01610 | 4.1.6.1 | Real-time server identical to the analysis server and backup server           | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-01620 | 4.1.6.1 | Real-time server to be a dedicated workstation                                | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-01630 | 4.1.6.1 | Real-time server shall be upgradeable/expandable                              | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-01642 | 4.1.6.1 | Real-time server disk drives shall provide 5.4 GB of storage                  | * 4.4.3.2   | Demonstration       |         |
| ROCC-GEN-01650 | 4.1.6.1 | Real-time server shall support one CD-ROM drive                               | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-02610 | 4.1.6.2 | Analysis server shall conform to all real-time server requirements            | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-03610 | 4.1.6.3 | Backup server shall conform to all real time and analysis server requirements | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-04610 | 4.1.6.4 | A server shall be provided to act as the external interface                   | 4.4.3.2     | Demonstration       |         |
| ROCC-GEN-05612 | 4.1.6.5 | Store a minimum of 5.4 GB of data per mission                                 | * 4.4.3.2   | Demonstration       |         |
| ROCC-GEN-06610 | 4.1.6.6 | Monitors to have diagonal measurement of 19 inches                            | 4.4.3.2     | Inspection          |         |
| ROCC-GEN-06620 | 4.1.6.6 | A shared system printer shall be provided                                     | 4.4.3.2     | Inspection          |         |
| ROCC-TLM-01112 | 4.2.1.1 | Receive telemetry using the TURFTS  | * 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-01120 | 4.2.1.1 | Receive telemetry using INMARSAT  | 4.4.3.2     | Demonstration       |         |
| ROCC-TLM-01130 | 4.2.1.1 | Receive telemetry using ARGOS   | 4.4.3.2     | Demonstration       |         |
| ROCC-TLM-01140 | 4.2.1.1 | Receive telemetry using Iridium   | 4.4.3.2     | Demonstration       |         |

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| ROCC-TLM-01150 | 4.2.1.1 | Receive archived balloon-craft telemetry  | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-01162 | 4.2.1.1 | Receive telemetry using LOS   | * 4.4.3.2 | Demonstration       |         |
| ROCC-TLM-02110 | 4.2.1.2 | Accept CCSDS transfer frames  | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-00210 | 4.2.2   | Accept CCSDS format   | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-00220 | 4.2.2   | Append a ground receipt date and time identifier to all received data           | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-00230 | 4.2.2   | Science data forwarded to the PI  | 4.4.3.1   | Demonstration       |         |
| ROCC-TLM-00240 | 4.2.2   | Process balloon-craft h/k data  | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-00250 | 4.2.2   | Detect missing packets  | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-00260 | 4.2.2   | Process telemetry based on predefined processing algorithms                     | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-00270 | 4.2.2   | Process telemetry at rates of at least 50 Kbps and up to 150 Kbps               | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-00280 | 4.2.2   | Convert telemetry into Engineering Units (EUs)                                  | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-00290 | 4.2.2   | Store all processed telemetry in TBD format indefinitely                        | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-01210 | 4.2.2.1 | Perform high/low limit checking on parameters                                   | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-01220 | 4.2.2.1 | Limit check parameters for boundary violations                                  | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-01230 | 4.2.2.1 | Limit check telemetry data against its limit values                             | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-01240 | 4.2.2.1 | Compare successive raw parameter values with predefined delta                   | 4.4.3.2   | Analysis            |         |
| ROCC-TLM-01250 | 4.2.2.1 | Mark each telemetry parameter indicating current limit condition                | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-02210 | 4.2.2.2 | Notify user when a parameter violates limits                                    | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-02220 | 4.2.2.2 | Notify user when a parameter returns to within limits                           | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-02230 | 4.2.2.2 | Notify user when a parameter incurs a delta limit violation                     | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-02240 | 4.2.2.2 | Generate notification without an alarm for limit violations in the yellow range | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-02250 | 4.2.2.2 | Generate notification with an alarm for limit violations in the red range       | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-02260 | 4.2.2.2 | Provide capability of disabling/enabling notification messages                  | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-02270 | 4.2.2.2 | Provide capability of changing limit values                                     | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-03210 | 4.2.2.3 | Provide capability to select a predefined EU conversion algorithm               | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-03220 | 4.2.2.3 | Provide capability to adjust the predefined EU conversion algorithm             | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-04210 | 4.2.2.4 | Make available values for every predefined telemetry parameter                  | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-04220 | 4.2.2.4 | Make available status for every predefined telemetry parameter                  | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-04230 | 4.2.2.4 | Make available description for every predefined telemetry parameter             | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-05210 | 4.2.2.5 | Provide capability to display all balloon-craft h/k parameters                  | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-05220 | 4.2.2.5 | Display data from the active source in a single window                          | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-05230 | 4.2.2.5 | Provide one or more top-level engineering displays                              | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-05240 | 4.2.2.5 | Provide additional operations displays  | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-05250 | 4.2.2.5 | Provide an operations display to display select science parameters              | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-05260 | 4.2.2.5 | Provide an operations display   | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-06210 | 4.2.2.6 | Store telemetry data as received from the data source                           | 4.4.3.2   | Demonstration       |         |

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| ROCC-TLM-06220 | 4.2.2.6 | Receive and store real time telemetry at 50 - 150 Kbps                        | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-06230 | 4.2.2.6 | Receive and store balloon-craft recorder playback telemetry at 50 - 150 Kbps  | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-06240 | 4.2.2.6 | Accept and store down-linked memory dump                                      | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-06250 | 4.2.2.6 | Replay telemetry data based upon a user specified time period                 | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-06260 | 4.2.2.6 | Process all data for the requested period during replay operation             | 4.4.3.2   | Inspection          |         |
| ROCC-TLM-07210 | 4.2.2.7 | Provide an interface for forwarding raw science data in near-real time        | 4.4.3.1   | Demonstration       |         |
| ROCC-TLM-07220 | 4.2.2.7 | Provide an interface for forwarding raw instrument h/k data in near-real time | 4.4.3.2   | Demonstration       |         |
| ROCC-TLM-07230 | 4.2.2.7 | Make available files containing balloon-craft h/k parameters                  | 4.4.3.2   | Demonstration       |         |
| ROCC-CMD-00110 | 4.3.1   | Receive, validate, and forward commands from an approved source               | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00120 | 4.3.1   | Provide the capability to create, edit, and delete a command script           | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00130 | 4.3.1   | Validate each field of each real time command in a procedure                  | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00140 | 4.3.1   | Display a listing of scripts generated or executed the previous 7 days        | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00212 | 4.3.2   | Transmitting commands via the TURFTS  | * 4.4.3.4 | Demonstration       |         |
| ROCC-CMD-00220 | 4.3.2   | Transmit commands via INMARSAT  | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00230 | 4.3.2   | Route commands through the proper ocean when utilizing INMARSAT               | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00240 | 4.3.2   | Transmit commands via Iridium network   | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00252 | 4.3.2   | Transmit commands via the LOS equipment                                       | * 4.4.3.4 | Demonstration       |         |
| ROCC-CMD-00310 | 4.3.3   | Authorized operator to issue individual commands in real time                 | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00320 | 4.3.3   | Transmit commands from a command procedure                                    | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00330 | 4.3.3   | Merge commands and memory loads into one up-link stream                       | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00410 | 4.3.4   | Assemble standard, fixed-length packets for onboard execution                 | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00420 | 4.3.4   | Validate all real time commands   | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00430 | 4.3.4   | Command set flight configurable   | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00510 | 4.3.5   | Determine a specific command as critical                                      | 4.4.4     | Demonstration       |         |
| ROCC-CMD-00520 | 4.3.5   | Require an operator authorization prior to up-linking a critical command      | 4.4.4     | Demonstration       |         |
| ROCC-CMD-00610 | 4.3.6   | Verify critical commands issued from an authorized user                       | 4.4.4     | Demonstration       |         |
| ROCC-CMD-00620 | 4.3.6   | Verify commands issued from an appropriate user                               | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00710 | 4.3.7   | Archive all up-linked information   | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00720 | 4.3.7   | Provide capability to log each command based on communications link           | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00730 | 4.3.7   | Notify the operator when a command is transmitted                             | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00740 | 4.3.7   | Provide capability to display and resend the last command sent                | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00750 | 4.3.7   | Mission critical commands shall take precedence over all other commands       | 4.4.4     | Demonstration       |         |
| ROCC-CMD-00760 | 4.3.7   | Provide interface to prevent PI(s) from using command up-links                | 4.4.3.3   | Demonstration       |         |
| ROCC-CMD-00770 | 4.3.7   | Alert when PIs utilizing a communications up-link                             | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00780 | 4.3.7   | Append the associated balloon ID number to all commands                       | 4.4.3.4   | Demonstration       |         |
| ROCC-CMD-00810 | 4.3.8   | Verify successful receipt of commands by the balloon-craft                    | 4.4.3.4   | Demonstration       |         |

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| ROCC-CMD-00820 | 4.3.8   | Notify operator of the status of each command up-linked                | 4.4.3.4 | Demonstration       |         |
| ROCC-CMD-00910 | 4.3.9   | Display all commands as defined in the Project Data Base               | 4.4.3.4 | Demonstration       |         |
| ROCC-CMD-00920 | 4.3.9   | Display commands in a grouping according to command function           | 4.4.3.4 | Demonstration       |         |
| ROCC-CMD-00930 | 4.3.9   | Provide a macro facility for frequently used sets of commands          | 4.4.3.4 | Demonstration       |         |
| ROCC-CMD-00940 | 4.3.9   | Display each command as it is selected                                 | 4.4.3.4 | Demonstration       |         |
| ROCC-CMD-00950 | 4.3.9   | Alerts for critical command functions may be visual or audible         | 4.4.3.4 | Demonstration       |         |
| ROCC-DAT-00110 | 4.4.1   | Display informational text messages about events                       | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-00120 | 4.4.1   | Event display shall have a scrolling text field                        | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-00130 | 4.4.1   | Provide the capability to request and display event history data       | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-01210 | 4.4.2.1 | Accept h/k telemetry definitions                                       | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-01220 | 4.4.2.1 | Contents of telemetry definitions are defined                          | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-01230 | 4.4.2.1 | Accept balloon-craft and instrument command definitions                | 4.4.3.4 | Demonstration       |         |
| ROCC-DAT-01240 | 4.4.2.1 | Contents of command definitions are defined                            | 4.4.3.4 | Demonstration       |         |
| ROCC-DAT-02210 | 4.4.2.2 | Provide capability to add, delete, and modify telemetry definitions    | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-02220 | 4.4.2.2 | Provide capability to add, delete, and modify command definitions      | 4.4.3.4 | Demonstration       |         |
| ROCC-DAT-02230 | 4.4.2.2 | Provide a PDB edit log   | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-02240 | 4.4.2.2 | Contents of edit log are defined                                       | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-03210 | 4.4.2.3 | Provide capability to perform validation on PDB telemetry definitions  | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-03220 | 4.4.2.3 | Provide capability to perform validation on PDB command definitions    | 4.4.3.4 | Demonstration       |         |
| ROCC-DAT-03230 | 4.4.2.3 | Provide capability to perform validation on PDB constraint definitions | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-03240 | 4.4.2.3 | Provide capability to generate a validation report                     | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-03250 | 4.4.2.3 | Provide capability to report information maintained in the PDB         | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-04210 | 4.4.2.4 | Maintain all versions of operational PDB                               | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-04220 | 4.4.2.4 | Maintain descriptive information for each version of the PDB           | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-04230 | 4.4.2.4 | Provide capability to backup the operational PDB                       | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-04240 | 4.4.2.4 | Provide capability to restore the operational PDB                      | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-04250 | 4.4.2.4 | Provide capability to compare two versions of a PDB                    | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-01310 | 4.4.3.1 | Archive all telemetry data   | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-01320 | 4.4.3.1 | Maintain telemetry data on-line for a minimum of TBD days              | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-01330 | 4.4.3.1 | Provide capability to retrieve archived data                           | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-02310 | 4.4.3.2 | Archive all event messages   | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-02320 | 4.4.3.2 | Provide capability to retrieve archived events                         | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-03310 | 4.4.3.3 | Store and retrieve data files  | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-00410 | 4.4.4   | Generate event messages  | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-00420 | 4.4.4   | Contents of event messages are defined                                 | 4.4.3.2 | Demonstration       |         |
| ROCC-DAT-00430 | 4.4.4   | Filter event messages  | 4.4.3.2 | Demonstration       |         |

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| ROCC-DAT-00440 | 4.4.4     | Designate a type of event message as an alarm                                   | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-01110 | 4.5.1.1   | Accept operator requests to configure the OCC                                   | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-01120 | 4.5.1.1   | Allow operators to specify a version of the Project Data Base                   | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-01130 | 4.5.1.1   | Accept configuration files that were created on the ROCC                        | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-02110 | 4.5.1.2   | Authorize users to command a ULDB balloon-craft                                 | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-02120 | 4.5.1.2   | Accept, validate, and process requests to acquire command privilege             | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-02130 | 4.5.1.2   | Provide a mechanism by which command privilege can be disabled                  | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-13110 | 4.5.1.3.1 | Allow from 0 to 64 windows to be displayed simultaneously                       | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-13120 | 4.5.1.3.1 | Provide capability to define default position and size of each window           | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-13130 | 4.5.1.3.1 | Provide capability to define system defaults                                    | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-13140 | 4.5.1.3.1 | Allow user to perform typical windowing desktop control                         | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-13150 | 4.5.1.3.1 | Allow user to issue directives from a workstation keyboard                      | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-13160 | 4.5.1.3.1 | Provide a command line editing capability                                       | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-13170 | 4.5.1.3.1 | Provide an area that displays the 10 most recent event messages                 | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-13180 | 4.5.1.3.1 | Allow user to initiate functions using function keys                            | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-23110 | 4.5.1.3.2 | Provide a login screen  | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-23120 | 4.5.1.3.2 | Allow a user to specify a user type   | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-23130 | 4.5.1.3.2 | Allow a user to have one or more user types                                     | 4.4.3.2 | Demonstration       |         |
| ROCC-RMC-33110 | 4.5.1.3.3 | Perform a syntax check of all commands  | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-33120 | 4.5.1.3.3 | Notify user of command syntax errors and display command options                | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-04110 | 4.5.1.4   | Create, edit, delete procedures   | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-04120 | 4.5.1.4   | Save procedures according to procedure type                                     | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-04130 | 4.5.1.4   | Save a procedure according to a balloon ID                                      | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-04140 | 4.5.1.4   | Identify the author of each procedure   | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-04150 | 4.5.1.4   | Check the syntax of a procedure   | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-04160 | 4.5.1.4   | Provide the capability to request validation of procedures                      | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-04170 | 4.5.1.4   | Display a list of the procedure items   | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-04180 | 4.5.1.4   | Provide user the capability to insert the items into the procedure text         | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-05110 | 4.5.1.5   | Provide hardcopy and electronic versions of analysis displays                   | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-05120 | 4.5.1.5   | Provide hardcopy of any of the currently displayed windows                      | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-16110 | 4.5.1.6.1 | Choose the start/stop time or event/duration based on date/time or last N hours | 4.4.3.4 | Demonstration       |         |
| ROCC-RMC-26110 | 4.5.1.6.2 | Provide a utility to filter items according to balloon-craft ID                 | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00110 | 4.6.1     | Access all archived balloon-craft telemetry data for analysis                   | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00120 | 4.6.1     | Access all system generated statistics data files for analysis                  | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00130 | 4.6.1     | Access a previously saved mission configuration dataset for analysis            | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00210 | 4.6.2     | Determine appropriate data base to use for data analysis                        | 4.4.3.4 | Demonstration       |         |

| R&FS #         | Section | Description   | DTR#    | Verification Method | Auditor |
|----------------|---------|---|---------|---------------------|---------|
| ROCC-ANL-00220 | 4.6.2   | Provide capability to override the automatic data base selection          | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00310 | 4.6.3   | Perform analysis on parameters contained within the telemetry archive     | 4.4.3.4 | Analysis            |         |
| ROCC-ANL-00320 | 4.6.3   | Notify when parameter information requested for analysis and invalid      | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00330 | 4.6.3   | Uniquely time tag parameters to the granularity of TBD milliseconds       | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00340 | 4.6.3   | Build an off-line analysis request  | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00410 | 4.6.4   | Build a dataset in response to a request for data analysis                | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00420 | 4.6.4   | Generate datasets including combinations of telemetry mnemonics           | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00430 | 4.6.4   | Generate datasets based on telemetry start and stop times                 | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00440 | 4.6.4   | Generate datasets based sampling rate specified per parameter             | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00450 | 4.6.4   | Build reports of analysis products  | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00460 | 4.6.4   | Display off-line analysis results in tabular and graphical views          | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00510 | 4.6.5   | Generate and store statistics for each telemetry mnemonic                 | 4.4.3.4 | Demonstration       |         |
| ROCC-ANL-00520 | 4.6.5   | Compute and display statistics based on a user-supplied interval          | 4.4.3.4 | Demonstration       |         |
| RMCS-GEN-00110 | 5.1.1   | Communicate commands to and receive data from the OCC via Internet        | 4.4     | Demonstration       |         |
| RMCS-GEN-00210 | 5.1.2   | Access limited to a set of registered list of users                       | 4.4     | Demonstration       |         |
| RMCS-GEN-00220 | 5.1.2   | Require unique user identification and password for each user             | 4.4     | Demonstration       |         |
| RMCS-GEN-00230 | 5.1.2   | Provide a secure means of receiving data                                  | 4.4     | Demonstration       |         |
| RMCS-TLM-00010 | 5.2     | Provide one or more top-level operations displays                         | 4.4     | Demonstration       |         |
| RMCS-TLM-00020 | 5.2     | Provide an engineering display  | 4.4     | Demonstration       |         |
| RMCS-CMD-00010 | 5.3     | Permit an authorized operator to issue individual commands in real-time   | 4.4     | Demonstration       |         |
| RMCS-CMD-00020 | 5.3     | Issue commands from a command procedure                                   | 4.4     | Demonstration       |         |
| RMCS-CMD-00030 | 5.3     | Forward all commands to the OCC for formatting, verification, and up-link | 4.4     | Demonstration       |         |
| RMCS-CMD-00040 | 5.3     | Terminate command privilege after TBD minutes of inactivity               | 4.4     | Demonstration       |         |